L Number	Hits	Search Text	DB	Time stamp
1		file profile record	USPAT;	2004/03/31 12:15
_			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
2	3896226	voice audio signal aural\$2	USPAT;	2004/03/31 12:16
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
3	206830	participant speaker caller	USPAT;	2004/03/31 12:16
		•	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
4	1178817	identif\$7	USPAT;	2004/03/31 12:17
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
_		(6.2	IBM_TDB	
5	435		USPAT;	2004/03/31 12:20
1	,	signal aural\$2) with (participant speaker	US-PGPUB;	
		caller) with identif\$7	EPO; JPO;	
			DERWENT;	
_	10	//file profile record with /i sudic	IBM_TDB	2004/02/21 22 21
6	12	((file profile record) with (voice audio signal aural\$2) with (participant speaker	USPAT;	2004/03/31 12:24
		caller) with identif\$7) with frequency	US-PGPUB;	
		Caller, with identify, with frequency	EPO; JPO; DERWENT;	
			IBM TDB	
8	_	((file profile record) near2 (voice audio	USPAT;	2004/03/31 12:27
"		signal aural\$2) near2 (participant speaker	US-PGPUB;	2004/03/31 12.27
		caller) near2 identif\$7) near2 frequency	EPO; JPO;	1
		current, moure ruemerry, moure rrequester	DERWENT;	1
		•	IBM TDB	
7	30	(file profile record) near2 (voice audio	USPAT;	2004/03/31 12:30
		signal aural\$2) near2 (participant speaker	US-PGPUB;	,,
		caller) near2 identif\$7	EPO; JPO;	
		' '	DERWENT;	
		_	IBM TDB	
9	0	((file profile record) near2 (voice audio	USPAT;	2004/03/31 12:33
		signal aural\$2) near2 (participant speaker	US-PGPUB;	
		caller) near2 identif\$7) with frequency	EPO; JPO;	
			DERWENT;	
			IBM_TDB	
10	3234246	store storing stored storage	USPAT;	2004/03/31 12:34
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
, ,	20200	(613 - massi3 - massaa) (113 (113 113 113 113 113 113 113 113 1	IBM_TDB	0004/00/05 50 55
11	28128	, , , , , , , , , , , , , , , , , , , ,	USPAT;	2004/03/31 12:35
		signal aural\$2) with (store storing stored	US-PGPUB;	
		storage)	EPO; JPO;	
			DERWENT;	
12	867	((file profile record) with (voice andic	IBM_TDB	2004/02/21 12 25
**	00/	((file profile record) with (voice audio signal aural\$2) with (store storing stored	USPAT;	2004/03/31 12:36
		storage)) with frequency	US-PGPUB; EPO; JPO;	
		Declaye,   with frequency	DERWENT;	
			IBM TDB	
13	15	(file profile record) near2 (voice audio	USPAT;	2004/03/31 12:40
	_ <del>-</del>	signal aural\$2) near2 (store storing stored	US-PGPUB;	
]		storage) near2 frequency	EPO; JPO;	
			DERWENT;	
			IBM TDB	
14	1	(((file profile record) with (voice audio	USPAT;	2004/03/31 12:42
		signal aural\$2) with (store storing stored	US-PGPUB;	
		storage)) with frequency) with conferenc\$3	EPO; JPO;	
]	:		DERWENT;	
L			IBM_TDB	
		<u> </u>	+0:1100	<u> </u>

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15	2	5559875.uref. and 5710591.uref.	USPAT;	2004/03/31 12:43
13	-	3333073. dlc1. dld 3710331. dlc1.	US-PGPUB;	=====================================
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
16	1	(5559875.uref. and 5710591.uref.) and	USPAT;	2004/03/31 12:46
		frequency	US-PGPUB;	
		•	EPO; JPO;	
			DERWENT;	
			IBM_TDB	0004/00/01 10 44
17	1	6192395.uref.	USPAT;	2004/03/31 12:44
			US-PGPUB; EPO; JPO;	
			DERWENT;	
			IBM TDB	
18	4	5627978.pn. 5999208.pn.	USPAT;	2004/03/31 12:47
10	-	302,3,0.pii. 3333200.pii.	US-PGPUB;	2001, 03, 31 12:11
			EPO; JPO;	
			DERWENT;	
		,	IBM TDB	
19	О	(5627978.pn. 5999208.pn.) and frequency	USPAT;	2004/03/31 12:47
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
20	4	5559875.pn. 5710591.pn.	USPAT;	2004/03/31 12:47
			US-PGPUB;	
			EPO; JPO;	
		•	DERWENT;	
0.1		(FFF007F F710F01 \ \ \ f	IBM_TDB	2004/02/21 10 54
21	1	(5559875.pn. 5710591.pn.) and frequency	USPAT;	2004/03/31 12:54
			US-PGPUB; EPO; JPO;	
			DERWENT;	
			IBM TDB	
22	67	skarbo.in.	USPAT;	2004/03/31 12:54
		5.142501111	US-PGPUB;	2001,03,31 12.31
			EPO; JPO;	
ļ		,	DERWENT;	
			IBM_TDB	
23	42	skarbo.in. and conferenc\$3	USPAT;	2004/03/31 12:55
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	IBM_TDB	
24	9721	(participant speaker caller) near2 identif\$7	USPAT;	2004/03/31 12:55
			US-PGPUB;	
			EPO; JPO; DERWENT;	
			IBM TDB	
25	6	(skarbo.in. and conferenc\$3) and	USPAT;	2004/03/31 12:56
	Ĭ	((participant speaker caller) near2	US-PGPUB;	
		identif\$7)	EPO; JPO;	
			DERWENT;	
			IBM_TDB	
26	7	skarbo.in. and ((participant speaker caller)	USPAT;	2004/03/31 12:59
		near2 identif\$7)	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
0.7			IBM_TDB	
27	232	((participant speaker caller) near2	USPAT;	2004/03/31 12:59
		identif\$7) with frequency	US-PGPUB;	
]			EPO; JPO;	
			DERWENT; IBM_TDB	
30	1	(((participant speaker caller) near2	USPAT;	2004/03/31 12:59
		identif\$7) near2 frequency) and conferenc\$3	US-PGPUB;	2004/03/31 12:39
		, and	EPO; JPO;	
			DERWENT;	
			IBM TDB	
				l

28	27	((participant speaker caller) near2	USPAT;	2004/03/31 13:01
		identif\$7) near2 frequency	US-PGPUB;	
İ			EPO; JPO;	
			DERWENT;	
21		//5:la mastila masand\th /isa adia	IBM_TDB	2004/02/21 12 02
31	2	((file profile record) with (voice audio	USPAT;	2004/03/31 13:02
		signal aural\$2) with (participant speaker caller) with identif\$7) with pitch	US-PGPUB;	
		Carrer, with identify, with pitch	EPO; JPO; DERWENT;	
			IBM TDB	
32	878	379/202.01-206.01.ccls.	USPAT;	2004/03/31 13:03
""		3737202102120225.	US-PGPUB;	2004,03,31 13.03
			EPO; JPO;	
			DERWENT;	
			IBM TDB	
33	4	(((participant speaker caller) near2	USPAT;	2004/03/31 13:03
		identif\$7) with frequency) and	US-PGPUB;	, ,
1		379/202.01-206.01.ccls.	EPO; JPO;	
			DERWENT;	
			IBM_TDB	
34	37		USPAT;	2004/03/31 13:04
		identif\$7) with pitch	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
25		270/202 01 006 01 7-1	IBM_TDB	
35	"	379/202.01-206.01.ccls. and (((participant	USPAT;	2004/03/31 13:04
		speaker caller) near2 identif\$7) with pitch)	US-PGPUB;	
			EPO; JPO;	
•			DERWENT;	
29	37	(((participant speaker caller) near2	<pre>IBM_TDB USPAT;</pre>	2004/03/31 13:23
-	3,	identif\$7) with frequency) and conferenc\$3	US-PGPUB;	2004/03/31 13:23
		radicity, with frequency, and conferences	EPO; JPO;	
			DERWENT;	
			IBM TDB	
36	70296	(file profile record) near2 (voice audio	USPAT;	2004/03/31 13:25
		`signal aural\$2)	US-PGPUB;	,
			EPO; JPO;	
			DERWENT;	
	1		IBM_TDB	
37	4102	'	USPAT;	2004/03/31 13:25
		signal aural\$2)) with frequency	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
38	4	379/202.01-206.01.ccls. and (((file profile	<pre>IBM_TDB USPAT;</pre>	2004/03/31 13:26
30	-	record) near2 (voice audio signal aural\$2))	US-PGPUB;	2004/03/31 13:26
-		with frequency)	EPO; JPO;	
			DERWENT;	
1			IBM TDB	
39	183	(((file profile record) near2 (voice audio	USPAT;	2004/03/31 13:27
		signal aural\$2)) with frequency) and	US-PGPUB;	
		conferenc\$3	EPO; JPO;	
			DERWENT;	
			IBM_TDB	
40	79	(((file profile record) near2 (voice audio	USPAT;	2004/03/31 13:27
		signal aural\$2)) with frequency) with	US-PGPUB;	
]		identif\$7	EPO; JPO;	
1	]	•	DERWENT;	
41		379/202.01-206.01.ccls. and (((file profile	IBM_TDB USPAT;	2004/02/21 12:07
	"	record) near2 (voice audio signal aural\$2))	US-PGPUB;	2004/03/31 13:27
	]	with frequency) with identif\$7)	EPO; JPO;	
-		<u>-</u>	DERWENT;	
			IBM_TDB	
42	3	((((file profile record) near2 (voice audio	USPAT;	2004/03/31 13:27
		signal aural\$2)) with frequency) with	US-PGPUB;	
		identif\$7) and conferenc\$3	EPO; JPO;	
			DERWENT;	
I	1		IBM TDB	

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US-PAT-NO:

4947436

DOCUMENT-IDENTIFIER: US 4947436 A

TITLE:

Speaker verification using memory

address

----- KWIC -----

Brief Summary Text - BSTX (4):

According to the present invention there is provided an apparatus for

speaker identification comprising: means for deriving from each of successive

sample periods of speech input thereto a digital word representing the

frequency spectrum thereof; a store for storing codewords indicating for each

digital word the relative probability of the frequency spectrum corresponding

to that word occuring in the speech of known speakers which the apparatus has

been trained to identify, the digital word output of the deriving means being

connected to address inputs of the store; and control means responsive, during

input of speech by a speaker to be identified, to codewords read out from the

store to output, in accordance with a predetemined criterion, data indicating

which, if any, of the known speakers is deemed to have been identified.

Claims Text - CLTX (28):

storing in a random access memory stored codewords uniquely corresponding to

said previously identified speakers at address locations corresponing to the

input speech's frequency spectrum, previously supplied by such speakers, a

given one of said codewords being supplied at a memory output in response to

input address signals;

Other Reference Publication - OREF (1):

ICASSP 82, IEEE International Conference of Acoustics, Speech and Signal

Processing, Paris, May 3-5, 1982, vol. 3 (IEEE, New York, U.S.), H. Ney et al.:

"Speaker Recognition Using a Feature Weighting Technique", pp. 1645-1648.

Other Reference Publication - OREF (3):

ICASSP 83, IEEE International Conference on Acoustics, Speech and Signal Processing, Boston, Apr. 14-16, 1983, vol. 2, (IEEE, New York, U.S.), K. P. Li et al.: "An Approach to Text-Independent Speaker Recognition with Short Utterences", pp. 555-558.

Other Reference Publication - OREF (5):

ICASSP 84, IEEE International Conference on Acoustics, Speech and Signal

Processing, San Diego, Mar. 19-21, 1984, vol. 2 (IEEE, New York, U.S.) M.

Krasner et al.: "Investigation of Test-Independent Speaker Identification

Techniques Under Conditions of Variable Data", pp. 18B.5.1-18B.5.4.